

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	569	(56/12.7).CCLS.	USPAT; USOCR	OR	OFF	2002/08/09 14:38
S2	130	((56/12.7).CCLS.) and wheel	USPAT	OR	OFF	2002/08/08 10:29
S3	22	"trimmer" and "weed" and "pivot" and (wheel or roller)	USPAT	OR	OFF	2002/08/08 15:08
S4	519	"trimmer" and "pivot" and (wheel or roller)	USPAT	OR	OFF	2002/08/08 15:09
S5	38	"trimmer" and "pivot" and "weed"	USPAT	OR	OFF	2002/08/08 15:13
S6	688	"universal joint" and bracket and pivot and handle	USPAT	OR	OFF	2002/08/08 15:14
S7	2	"universal joint" and bracket and "dual pivot" and handle	USPAT	OR	OFF	2002/08/08 15:15
S8	15	"universal joint" and "dual pivot"	USPAT	OR	OFF	2002/08/08 15:17
S9	2375	"universal joint" and bracket and pivot	USPAT	OR	OFF	2002/08/08 15:19
S10	36739	"56"/\$.ccls.	USPAT	OR	OFF	2002/08/08 16:24
S11	416	"56"/\$.ccls. and "universal joint"	USPAT	OR	OFF	2002/08/08 16:24
S12	1	("2514278").PN.	USPAT; USOCR	OR	OFF	2002/11/14 10:11
S13	0	"2514278".URPN.	USPAT	OR	OFF	2002/11/14 10:10
S14	0	"2514278".URPN.	USPAT	OR	OFF	2002/11/14 10:10
S15	1	("2796715").PN.	USPAT; USOCR	OR	OFF	2002/11/14 10:12
S16	6	"2796715".URPN.	USPAT	OR	OFF	2002/11/14 10:11
S17	1	("0456472").PN.	USPAT; USOCR	OR	OFF	2002/11/14 10:14
S18	1	"456472".URPN.	USPAT	OR	OFF	2002/11/14 10:12
S19	56	(56/12.5).CCLS.	USPAT; USOCR	OR	OFF	2002/11/14 10:15
S20	438	(56/13.6).CCLS.	USPAT; USOCR	OR	OFF	2002/11/14 10:17
S21	193	(56/17.1).CCLS.	USPAT; USOCR	OR	OFF	2002/11/14 10:17

## EAST Search History

S22	45	("2909021"   "2930176"   "2934875"   "2946172"   "3106251"   "3441089"   "4122601"   "4179805"   "4182100"   "4389836"   "4391041"   "4442659"   "4505040"   "4531350"   "4704849"   "4756147"   "4879869"   "4922694"   "4936886"   "5092112"   "5222750"   "5263303"   "5279102"   "5303532"   "5408816"   "D359291"   "5450715"   "5603205"   "5613354"   "5626006"   "5697453"   "5771670"   "5802724"   "5829236"   "5836142"   "5850882"   "5884462"   "5966914"   "5970694"   "6003611"   "6009694"   "6062318"   "6065275"   "6085503"   "6213677").PN.	USPAT	OR	OFF	2002/11/14 14:53
S23	375	"universal joint" and wheel and caster	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/04/09 17:56
S24	127	"universal joint" and wheel and caster and handle	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/04/09 18:05
S25	337	"universal joint" and wheel and caster	USPAT	OR	ON	2003/04/09 18:05
S26	218	("universal joint" and wheel and caster) not ("universal joint" and wheel and caster and handle)	USPAT	OR	ON	2003/04/09 18:22
S27	3074	"universal joint" and handle	USPAT	OR	ON	2003/04/09 18:06
S28	15967	"universal joint"	USPAT	OR	ON	2003/04/09 18:06
S29	7492	"universal joint" and wheel	USPAT	OR	ON	2003/04/09 18:06
S30	119	"universal joint" and wheel and caster and handle	USPAT	OR	ON	2003/04/09 18:07
S31	337	"universal joint" and wheel and caster	USPAT	OR	ON	2003/04/09 18:07
S32	416	"universal joint" and caster	USPAT	OR	ON	2003/04/09 18:22
S33	79	("universal joint" and caster) not (("universal joint" and wheel and caster) or ("universal joint" and wheel and caster and handle))	USPAT	OR	ON	2003/04/09 18:26
S34	1360	"universal joint" and (mop or broom or sweep or vacuum)	USPAT	OR	ON	2003/04/09 18:26
S35	970	"universal joint" and (mop or broom or vacuum)	USPAT	OR	ON	2003/04/09 18:26

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S36	940	"universal joint" and (mop or vacuum)	USPAT	OR	ON	2003/04/09 18:26
S37	53	"universal joint" and mop	USPAT	OR	ON	2003/04/09 18:30
S38	895	"universal joint" and vacuum	USPAT	OR	ON	2003/04/09 18:30
S39	38	"universal joint" and vacuum and caster	USPAT	OR	ON	2003/04/09 18:33
S40	1884	"universal joint" and bevel	USPAT	OR	ON	2003/04/09 18:33
S41	1418	"universal joint" and "bevel gear"	USPAT	OR	ON	2003/04/09 18:33
S42	9	"universal joint" and "bevel gear" and trimmer	USPAT	OR	ON	2003/04/09 18:33
S43	375	"universal joint" and wheel and caster	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/04/09 18:55
S44	111	"universal joint" and vegetation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/04/09 18:55
S45	10	("2608043"   "4182100"   "4442659"   "4531350"   "4688376"   "4704849"   "4922694"   "5092112"   "5095687"   "5279102").PN.	USPAT	OR	ON	2004/01/22 17:06
S46	14	"5408816".URPN.	USPAT	OR	ON	2004/01/22 17:07
S47	45	("2909021"   "2930176"   "2934875"   "2946172"   "3106251"   "3441089"   "4122601"   "4179805"   "4182100"   "4389836"   "4391041"   "4442659"   "4505040"   "4531350"   "4704849"   "4756147"   "4879869"   "4922694"   "4936886"   "5092112"   "5222750"   "5263303"   "5279102"   "5303532"   "5408816"   "D359291"   "5450715"   "5603205"   "5613354"   "5626006"   "5697453"   "5771670"   "5802724"   "5829236"   "5836142"   "5850882"   "5884462"   "5966914"   "5970694"   "6003611"   "6009694"   "6062318"   "6065275"   "6085503"   "6213677").PN.	USPAT	OR	ON	2004/01/22 17:10

## EAST Search History

S48	45	("2909021"   "2930176"   "2934875"   "2946172"   "3106251"   "3441089"   "4122601"   "4179805"   "4182100"   "4389836"   "4391041"   "4442659"   "4505040"   "4531350"   "4704849"   "4756147"   "4879869"   "4922694"   "4936886"   "5092112"   "5222750"   "5263303"   "5279102"   "5303532"   "5408816"   "D359291"   "5450715"   "5603205"   "5613354"   "5626006"   "5697453"   "5771670"   "5802724"   "5829236"   "5836142"   "5850882"   "5884462"   "5966914"   "5970694"   "6003611"   "6009694"   "6062318"   "6065275"   "6085503"   "6213677").PN.	USPAT	OR	ON	2004/01/23 14:15
S49	0	"976313".URPN.	USPAT	OR	ON	2004/01/23 14:38
S50	10	("2564201"   "2673366"   "2790292"   "3774379"   "3788049"   "4043101"   "4127938"   "4224784"   "4463493"   "4531350").PN.	USPAT	OR	ON	2004/01/23 14:48
S51	20	"4704849".URPN.	USPAT	OR	ON	2004/01/23 14:49
S52	10	("2608043"   "4182100"   "4442659"   "4531350"   "4688376"   "4704849"   "4922694"   "5092112"   "5095687"   "5279102").PN.	USPAT	OR	ON	2004/01/23 16:08
S53	14	"5408816".URPN.	USPAT	OR	ON	2004/01/23 16:08
S54	14	"5408816".URPN.	USPAT	OR	ON	2004/01/23 16:10
S55	20	"4704849".URPN.	USPAT	OR	ON	2004/01/23 16:11
S56	10	("2608043"   "4182100"   "4442659"   "4531350"   "4688376"   "4704849"   "4922694"   "5092112"   "5095687"   "5279102").PN.	USPAT	OR	ON	2004/01/23 17:15
S57	14	"5408816".URPN.	USPAT	OR	ON	2004/01/23 17:28
S58	9	("3828392"   "4182100"   "4287709"   "4411126"   "4688376"   "4756147"   "4845929"   "4922694"   "5095687").PN.	USPAT	OR	ON	2004/01/23 17:30
S59	7	"5287683".URPN.	USPAT	OR	ON	2004/01/23 17:31
S60	6	("3788049"   "4182100"   "4442659"   "4531350"   "4688376"   "4704849").PN.	USPAT	OR	ON	2004/01/23 17:41
S61	26	"5092112".URPN.	USPAT	OR	ON	2004/01/23 17:41
S62	5	("4077191"   "4343139"   "4389836"   "4411126"   "4512143").PN.	USPAT	OR	ON	2004/01/23 17:43

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S63	32	"4688376".URPN.	USPAT	OR	ON	2004/01/23 17:43
S64	11	("3664102"   "3815234"   "3826068"   "4024635"   "4095338"   "4136446"   "4169311"   "4183138"   "4249311"   "4250623"   "4271595").PN.	USPAT	OR	ON	2004/01/23 17:45
S65	27	"4356686".URPN.	USPAT	OR	ON	2004/01/23 17:46
S66	3	("3218789"   "4097991"   "4114269").PN.	USPAT	OR	ON	2004/01/23 17:49
S67	20	"4202094".URPN.	USPAT	OR	ON	2004/01/23 17:49
S68	3	("4024635"   "4043103"   "4068377").PN.	USPAT	OR	ON	2004/01/23 17:50
S69	9	"4137694".URPN.	USPAT	OR	ON	2004/01/23 17:51
S70	10	("2564201"   "2673366"   "2790292"   "3774379"   "3788049"   "4043101"   "4127938"   "4224784"   "4463493"   "4531350").PN.	USPAT	OR	ON	2004/01/23 17:51
S71	20	"4704849".URPN.	USPAT	OR	ON	2004/01/23 17:51
S72	5	("2608043"   "4848746"   "4924573"   "5558057"   "5651418").PN.	USPAT	OR	ON	2004/01/23 17:52
S73	1	"6260278".URPN.	USPAT	OR	ON	2004/01/23 17:52
S74	6	("3561199"   "3977078"   "4182100"   "4343139"   "4389836"   "4411126").PN.	USPAT	OR	ON	2004/01/23 17:53
S75	29	"4531350".URPN.	USPAT	OR	ON	2004/01/23 17:54
S76	11	("4182100"   "4442659"   "4531350"   "4688376"   "4704849"   "4879869"   "5092112"   "5222750"   "5408816"   "5450715"   "5836142").PN.	USPAT	OR	ON	2004/01/23 17:55
S77	6	"5970694".URPN.	USPAT	OR	ON	2004/01/23 17:56
S78	9	("3018602"   "3996726"   "4018037"   "4389836"   "4688376"   "4879869"   "4936886"   "5313770"   "5408816").PN.	USPAT	OR	ON	2004/01/23 17:57
S79	10	"5771670".URPN.	USPAT	OR	ON	2004/01/23 17:57
S80	20	("D175262"   "1013605"   "2038697"   "2235045"   "2321981"   "2531131"   "3031207"   "3528676"   "3547458"   "3788662"   "3873119"   "4222580"   "4993726"   "5046749"   "5088751"   "5180179"   "5183280"   "5185992"   "5472220"   "5599037").PN.	USPAT	OR	ON	2004/01/23 17:58
S81	7	"5806867".URPN.	USPAT	OR	ON	2004/01/23 18:07

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S82	0	"20020189221".URPN.	USPAT	OR	ON	2004/01/23 18:07
S83	12	"2038697".URPN.	USPAT	OR	ON	2004/01/23 18:07
S84	4	("3210091"   "2481837"   "2904345"   "D185203").PN.	USPAT	OR	ON	2004/01/23 18:08
S85	5	"3788662".URPN.	USPAT	OR	ON	2004/01/23 18:09
S86	3	("2775857"   "3823472"   "4023332").PN.	USPAT	OR	ON	2004/01/23 18:09
S87	3	"4127938".URPN.	USPAT	OR	ON	2004/01/23 18:09
S88	11	("1970290"   "2038697"   "2893044"   "3019462"   "3102289"   "3599272"   "3694263"   "3896521"   "3992747"   "4083077"   "4164055").PN.	USPAT	OR	ON	2004/01/23 18:10
S89	13	"4266317".URPN.	USPAT	OR	ON	2004/01/23 18:10
S90	3	("2730320"   "4182100"   "4389836").PN.	USPAT	OR	ON	2004/01/23 18:11
S91	45	"4442659".URPN.	USPAT	OR	ON	2004/01/23 18:12
S92	12	"2038697".URPN.	USPAT	OR	ON	2004/01/25 16:45
S93	6	("3561199"   "3977078"   "4182100"   "4343139"   "4389836"   "4411126").PN.	USPAT	OR	ON	2004/01/25 16:47
S94	29	"4531350".URPN.	USPAT	OR	ON	2004/01/25 16:47
S95	5	("4182100"   "4531350"   "4829755"   "4936886"   "5626006").PN.	USPAT	OR	ON	2004/01/25 16:50
S96	5	("4077191"   "4343139"   "4389836"   "4411126"   "4512143").PN.	USPAT	OR	ON	2004/01/25 16:56
S97	32	"4688376".URPN.	USPAT	OR	ON	2004/01/25 16:57
S98	6	("3382653"   "3465505"   "3702016"   "4688376"   "4942726"   "5090185").PN.	USPAT	OR	ON	2004/01/25 17:01
S99	7	"5653096".URPN.	USPAT	OR	ON	2004/01/25 17:02
S100	10	("2564201"   "2673366"   "2790292"   "3774379"   "3788049"   "4043101"   "4127938"   "4224784"   "4463493"   "4531350").PN.	USPAT	OR	ON	2004/01/25 17:04
S101	20	"4704849".URPN.	USPAT	OR	ON	2004/01/25 17:05
S102	20	("2608043"   "2721433"   "2812950"   "2932526"   "3587749"   "4182100"   "4224784"   "4389836"   "4411126"   "4428183"   "4442659"   "4512143"   "4531350"   "4587800"   "4688376"   "4704849"   "4712363"   "4735425"   "4796415"   "4829755").PN.	USPAT	OR	ON	2004/01/25 17:05

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S10 3	35	"4922694".URPN.	USPAT	OR	ON	2004/01/25 17:06
S10 4	14	("0964178"   "1129713"   "1219049"   "1586294"   "1724702"   "2761732"   "2820642"   "3120327"   "3134461"   "3652014"   "3795254"   "3931931"   "4203609"   "4580726").PN.	USPAT	OR	ON	2004/01/25 17:08
S10 5	10	"4984746".URPN.	USPAT	OR	ON	2004/01/25 17:08
S10 6	7	("0294211"   "0344661"   "0345090"   "0808739"   "0909297"   "2518032"   "4222580").PN.	USPAT	OR	ON	2004/01/25 17:09
S10 7	11	"5088751".URPN.	USPAT	OR	ON	2004/01/25 17:09
S10 8	28	("2638730"   "3221481"   "3788049"   "3977078"   "4009560"   "4182100"   "4224784"   "4358123"   "4442659"   "4512143"   "4587800"   "4624321"   "4679385"   "4688376"   "4703613"   "4704849"   "4712363"   "4756147"   "4796415"   "4802327"   "4829755"   "4845929"   "4891931"   "4914899"   "4922694"   "4936886"   "4953294"   "4981012").PN.	USPAT	OR	ON	2004/01/25 17:10
S10 9	11	"5279102".URPN.	USPAT	OR	ON	2004/01/25 17:11
S11 0	15	("4182100"   "4411126"   "4442659"   "4512143"   "4531350"   "4688376"   "4704849"   "4756147"   "4796415"   "4922694"   "4936886"   "5045615"   "5092112"   "5233818"   "5287683").PN.	USPAT	OR	ON	2004/01/25 17:13
S11 1	0	"5850728".URPN.	USPAT	OR	ON	2004/01/25 17:13
S11 2	0	"5850728".URPN.	USPAT	OR	ON	2004/01/25 17:13
S11 3	10	("0556616"   "0597337"   "4182100"   "4224784"   "5301757"   "5317807"   "5351762"   "5408816"   "5626006"   "5829236").PN.	USPAT	OR	ON	2004/01/25 17:13
S11 4	1	"6009694".URPN.	USPAT	OR	ON	2004/01/25 17:14

## EAST Search History

S11 5	45	("2909021"   "2930176"   "2934875"   "2946172"   "3106251"   "3441089"   "4122601"   "4179805"   "4182100"   "4389836"   "4391041"   "4442659"   "4505040"   "4531350"   "4704849"   "4756147"   "4879869"   "4922694"   "4936886"   "5092112"   "5222750"   "5263303"   "5279102"   "5303532"   "5408816"   "D359291"   "5450715"   "5603205"   "5613354"   "5626006"   "5697453"   "5771670"   "5802724"   "5829236"   "5836142"   "5850882"   "5884462"   "5966914"   "5970694"   "6003611"   "6009694"   "6062318"   "6065275"   "6085503"   "6213677").PN.	USPAT	OR	ON	2004/01/25 17:14
S11 6	0	"6345489".URPN.	USPAT	OR	ON	2004/01/25 17:16
S11 7	3	("5603205"   "5771670"   "6260278").PN.	USPAT	OR	ON	2004/01/25 17:16
S11 8	0	"6516598".URPN.	USPAT	OR	ON	2004/01/25 17:16
S11 9	25	("4182100"   "4411126"   "4531350"   "4688376"   "4704849"   "4796415"   "4829755"   "4873819"   "4922694"   "5092112"   "5313770"   "D356583"   "5408816"   "5467584"   "5577374"   "5771670"   "5791054"   "5829236"   "5836142"   "D402297"   "5852876"   "5970694"   "6050069"   "6085503"   "6363699").PN.	USPAT	OR	ON	2004/01/25 17:16
S12 0	0	"6675565".URPN.	USPAT	OR	ON	2004/01/25 17:17
S12 1	7	D285079.URPN.	USPAT	OR	ON	2004/01/25 17:17
S12 2	11	("D285079"   "2608043"   "4182100"   "4531350"   "4688376"   "4704849"   "4879869"   "4922694"   "5092112"   "5279102"   "5317807").PN.	USPAT	OR	ON	2004/01/25 17:18
S12 3	2	D357690.URPN.	USPAT	OR	ON	2004/01/25 17:18



## EAST Search History

S12 4	16	("D285079"   "D356583"   "D357690"   "4182100"   "4411126"   "4442659"   "4512143"   "4531350"   "4688376"   "4704849"   "4796415"   "4922694"   "4936886"   "5092112"   "5408816"   "5471824").PN.	USPAT	OR	ON	2004/01/25 17:18
S12 5	0	D398615.URPN.	USPAT	OR	ON	2004/01/25 17:19
S12 6	2	"2564201".URPN.	USPAT	OR	ON	2004/01/25 17:19
S12 7	15	"2608043".URPN.	USPAT	OR	ON	2004/01/25 17:20
S12 8	4	"2721433".URPN.	USPAT	OR	ON	2004/01/25 17:21
S12 9	11	"3382653".URPN.	USPAT	OR	ON	2004/01/25 17:22
S13 0	14	"3587749".URPN.	USPAT	OR	ON	2004/01/25 17:26
S13 1	11	("1482954"   "2564201"   "2719396"   "2763116"   "2794308"   "2879074"   "2882668"   "3147987"   "3199277"   "3624989"   "3664099").PN.	USPAT	OR	ON	2004/01/25 17:26
S13 2	8	"2763116".URPN.	USPAT	OR	ON	2004/01/25 17:27
S13 3	14	"3802173".URPN.	USPAT	OR	ON	2004/01/25 17:29
S13 4	5	("3152431"   "2763116"   "2898723"   "3196971"   "2582177").PN.	USPAT	OR	ON	2004/01/25 17:30
S13 5	3	"3780504".URPN.	USPAT	OR	ON	2004/01/25 17:31
S13 6	4	"2582177".URPN.	USPAT	OR	ON	2004/01/25 17:31
S13 7	8	"2898723".URPN.	USPAT	OR	ON	2004/01/25 17:32
S13 8	8	"3196971".URPN.	USPAT	OR	ON	2004/01/25 17:33
S13 9	3	("2730320"   "4182100"   "4389836").PN.	USPAT	OR	ON	2004/01/25 17:34
S14 0	45	"4442659".URPN.	USPAT	OR	ON	2004/01/25 17:34
S14 1	5	("3163438"   "3881564"   "3917922"   "4440588"   "4447288").PN.	USPAT	OR	ON	2004/01/25 17:39
S14 2	14	"4744855".URPN.	USPAT	OR	ON	2004/01/25 17:39

## EAST Search History

S14 3	11	("1612446"   "2392926"   "2490947"   "4062429"   "4358005"   "4838396"   "4969660"   "5178244"   "5197579"   "5269044"   "5339934").PN.	USPAT	OR	ON	2004/01/25 17:41
S14 4	11	"5547053".URPN.	USPAT	OR	ON	2004/01/25 17:41
S14 5	22	("1007512"   "2864100"   "3244437"   "4003668"   "4524484"   "4594824"   "4793646"   "4904379"   "4932176"   "5105752"   "5209176"   "5271682"   "5333422"   "5336012"   "5337989"   "5343587"   "5387048"   "5449100"   "5515574"   "5591507"   "5799357"   "5940933").PN.	USPAT	OR	ON	2004/01/25 17:42
S14 6	27	("2523439"   "2857725"   "2948544"   "3382653"   "4246677"   "4280246"   "4321784"   "4349937"   "4349938"   "4368806"   "4385414"   "4669580"   "4706328"   "4835952"   "4870811"   "5020310"   "5210998"   "5232071"   "5269125"   "5297379"   "5355664"   "5463855"   "5497856"   "5653096"   "5799366"   "5829096"   "5899469").PN.	USPAT	OR	ON	2004/01/25 17:43
S14 7	0	"6240713".URPN.	USPAT	OR	ON	2004/01/25 17:45
S14 8	0	"6240713".URPN.	USPAT	OR	ON	2004/01/25 17:45
S14 9	30	("2608043"   "2721433"   "2942397"   "3587749"   "4125339"   "4182100"   "4224784"   "4287709"   "4312178"   "4341060"   "4343139"   "4389836"   "4411126"   "4428183"   "4442659"   "4446680"   "4463544"   "4587800"   "4633658"   "4679385"   "4712363"   "4756147"   "4796415"   "4823542"   "4914899"   "4922694"   "5309701"   "5839262"   "5970692"   "5970694").PN.	USPAT	OR	ON	2004/01/25 17:46
S15 0	17	("2648187"   "2848859"   "2894761"   "2915318"   "2938323"   "4083168"   "4179805"   "4224785"   "4226021"   "4232505"   "4259782"   "4280319"   "4302878"   "4389836"   "4428183"   "4450673"   "4531350").PN.	USPAT	OR	ON	2004/01/25 17:47

## EAST Search History

S15 1	7	"4633658".URPN.	USPAT	OR	ON	2004/01/25 17:48
S15 2	0	"6370854".URPN.	USPAT	OR	ON	2004/01/25 17:48
S15 3	8	"2648187".URPN.	USPAT	OR	ON	2004/01/25 17:49
S15 4	5	("3017733"   "2648187"   "2862376"   "3587749"   "3034275").PN.	USPAT	OR	ON	2004/01/25 17:51
S15 5	14	"3774379".URPN.	USPAT	OR	ON	2004/01/25 17:51
S15 6	4	"2582177".URPN.	USPAT	OR	ON	2004/01/25 17:55
S15 7	23	"4756147"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/01/25 18:39
S15 8	1382	((56/12.7) or (56/17.1) or (56/12.5) or (56/13.6)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/01/25 18:39
S15 9	58	"56"/\$.ccls. and trimmer and universal	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/07/13 18:11
S16 0	273	"56"/\$.ccls. and trimmer and "electric motor"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/07/13 18:11
S16 1	119	"56"/\$.ccls. and ("lower handle" or "second handle")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/07/13 18:42
S16 2	83	"56"/\$.ccls. and ("lower grip" or "second handle")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/07/13 18:48
S16 3	1397	(56/12.5,12.7,13.6,17.1,).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/07/13 18:49
S16 6	24	fuller.in. and "universal joint"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2004/11/03 16:28

## EAST Search History

S16 7	1831	(56/12.5,12.7,13.6,17.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/11/03 16:28
S16 8	228	S167 and universal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2004/11/03 16:28
S16 9	5	("4077191"   "4343139"   "4389836"   "4411126"   "4512143").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 16:13
S17 0	33	("4688376").URPN.	USPAT	OR	ON	2005/01/07 16:13
S17 1	8	("3382653"   "3465505"   "3702016"   "4688376"   "4942726"   "5090185").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 16:15
S17 2	7	("5653096").URPN.	USPAT	OR	ON	2005/01/07 16:16
S17 3	4	("4107901").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/10/18 13:42
S17 4	8	"universal joint" with ("secondary handle" or "auxiliary handle")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/04/16 15:13
S17 5	46	"4688376"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/04/16 15:49
S17 6	2275	"universal joint" same (grip or handle) same (roller or wheel\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/04/16 15:50
S17 7	0	("2204914").URPN.	USPAT	OR	ON	2007/04/16 16:22
S17 8	13	("1777915"   "2168692"   "3464075"   "3760448"   "3860989"   "4319434"   "4590635"   "4631775"   "4731956"   "4747176").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/16 17:39

## EAST Search History

S17 9	9	("5058229").URPN.	USPAT	OR	ON	2007/04/16 17:40
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